

**Application No.: 09/731,460****Atty Docket: HBES 1028-1****In the Specification:**

Please change the title to: "Image System and Method Applying Transformer Lens and Digital Image Reconstruction."

On page 4, immediately following the DETAILED DESCRIPTIONS heading, please replace the paragraph beginning with "FIG. 1 is a diagram..." at line 5 and ending with "...the image processor 120" at line 16 with the text as shown:

FIG. 1 is a diagram of an imaging system 100 that minimizes pixel defects by capturing an image in the spatial frequency domain. The imaging system 100 includes a frequency-domain image-capture setup 110, an image processor 120, and a user interface 130. The frequency-domain image-capture setup 110 comprises an image object 111 (illustrated by a cup), a focusing lens 112 for focusing the image object 111, and a transform lens 114 that forms a diffraction pattern of the image object 111 onto an imager 118. The imager 118 may comprise an array of complimentary metal oxide semiconducting ("CMOS") photocells and circuit elements, captures the diffraction pattern of the image object 111. The imager 118 may also comprise a charged couple device ("CCD"). Each photocell produces an electrical response to light exposure. The electrical responses of the array of photocells together represent the spatial frequency-domain image data of the image object 111. The spatial frequency-domain image data is transferred from the imager 118 to the image processor 120.

On page 7, please replace the paragraph beginning with "Diffracted light rays 249..." at line 21 and ending with "...in the spatial frequency domain" at line 4 on page 8, with the text as shown:

Diffracted light rays 249 emanating from spatial light modulator 248 are transformed by the transform lens 250 into a diffraction pattern at the transform plane (i.e., the output focal plane) of the transform lens 250. The second imager 252 may be placed in the transform plane making it capable of capturing the diffraction pattern of the image object 231 and transmitting the data to an image processor (not shown). The frequency-domain image-capturing setup 230 provides a means of capturing an image

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of an object illuminated by an incoherent light source in the spatial frequency domain.